

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/573,584  
Source: IFWP  
Date Processed by STIC: 4/7/06

# ***ENTERED***

## CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/573,584

CRF Edit Date: 4/7/06  
Edited by: Mc

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

☒ Deleted: 1 invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



IFWP

## RAW SEQUENCE LISTING

DATE: 04/07/2006

PATENT APPLICATION: US/10/573,584

TIME: 11:19:22

Input Set : A:\PTO.AMC.txt

Output Set : N:\CRF4\04072006\J573584.raw

3 <110> APPLICANT: Bayer AG, BHC  
 5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated  
 6 with Arginyl Aminopeptidase RNPEP (RNPEP)  
 8 <130> FILE REFERENCE: Le A 36 899  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/573,584  
 C--> 10 <141> CURRENT FILING DATE: 2006-03-27  
 10 <160> NUMBER OF SEQ ID NOS: 5  
 12 <170> SOFTWARE: PatentIn version 3.1  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 2400  
 16 <212> TYPE: DNA  
 17 <213> ORGANISM: Homo sapiens  
 19 <400> SEQUENCE: 1  
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 21 actccgcgca ggctgcggcc gctgcactcc gcgcaggctg tggacgtggc ctccggcctcc 120  
 22 aacttcgggg cctttgagct gctgcacttg cacctggacc tgcgggctga gttcgggcct 180  
 23 ccaggggcccg gcgcaggagg ccgggggctg agcggcaccg cggctcctgga cctgcgctgc 240  
 24 ctggagcccg agggcgccgc cgagctgcgg ctggactcgc acccgtgcct ggaggtgacg 300  
 25 gcggcgccgc tgcggcgga gcggccggc tcggaggagc cgctgcgga gcccgtagc 360  
 26 ttctacacgc agcccttctc gcactatggc caggccctgt gcgtgtcctt cccgcagccc 420  
 27 tgccgcgcgg ccgagcgcc cagggtgctg ctacactacc gcgtcgggga gggaccccg 480  
 28 gtttgcctgg tggctcccga gcagacagca ggaaagaaga agcccttcgt gtacaccag 540  
 29 ggccaggctg tcctaaaccg ggccttcttc ccttgcttcg acacgcctgc tgttaaatac 600  
 30 aagtattcag ctcttattga ggtcccagat ggcttcacag ctgtgatgag tgcaagacct 660  
 31 ggggagaaga gaggtccaaa taagtctctc ttccagatgt gtcagcccat cccctcctat 720  
 32 ctgatagctt tggccatcgg agatctgggt tcggctgaag ttggaccag gagccgggtg 780  
 33 tgggctgagc cctgcctgat tgatgctgcc aaggagtaca acggggtgat agaagaattt 840  
 34 ttggcaacag gagagaagct ttttgacct tatgtttggg gaaggtatga cttgctcttc 900  
 35 atgccaccgt cctttccatt tggaggaatg gagaaccctt gtctgacctt tgtcaccccc 960  
 36 tgcctgctag ctggggaccg ctccctggca gatgtcatca tccatgagat ctcccacagt 1020  
 37 tggtttgga acctggtcac caacgccaac tggggtgaat tctggctcaa tgaaggtttc 1080  
 38 accatgtacg ccagaggag gatctccacc atcctctttg gcgctgcgta cacctgcttg 1140  
 39 gaggtgcaa cggggcgggc tctgctgcgt caacacatgg acatcactgg agaggaaaac 1200  
 40 ccactcaaca agctccgct gaagattgaa ccaggcgttg acccgacga cacctataat 1260  
 41 gagacccct acgagaaagg tttctgcttt gtctcatacc tggcccactt ggtgggtgat 1320  
 42 caggatcagt ttgacagttt tctcaaggcc tatgtgcatg aattcaaatt ccgaagcatc 1380  
 43 ttagccgatg actttctgga cttctacttg gaatttttc ctgagcttaa gaaaaagaga 1440  
 44 tgagatatca ttccaggttt tgagtttgat cgatggctga ataccgccg ctggccccc 1500  
 45 taccctccctg atctctcccc tggggactca ctcatgaagc ctgctgaaga gctagcccaa 1560  
 46 ctgtgggcag ccgaggagct ggacatgaag gccattgaag ccgtggccat ctctccctgg 1620  
 47 aagacctacc agctggtcta cttcctggat aagatcctcc agaaatcccc tctccctcct 1680  
 48 gggaatgtga aaaaacttgg agacacatac ccaagtatct caaatgccg gaatgcagag 1740  
 49 ctccggctgc gatggggcca aatcgctcctt aagaacgacc accaggaaga tttctggaaa 1800

## RAW SEQUENCE LISTING

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\04072006\J573584.raw

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50 gtgaaggagt tcctgcataa ccaggggaag cagaagtata cacttccgct gtaccacgca 1860
51 atgatgggtg gcagtgaggt ggcccagacc ctgcgcaagg agacttttgc atccaccgcc 1920
52 tcccagctcc acagcaatgt tgtcaactat gtccagcaga tcgtggcacc caagggcagt 1980
53 tagaggctcg tgtgcatggc ccctgcctct tcaggctctc caggctttca gaataattgt 2040
54 ttgttcccaa attcctgttc cctgatcaac ttcctggagt ttatatcccc tcaggataat 2100
55 ctattctcta gcttaggtat ctgtgactct tgggcctctg ctctgggtggg aacttacttc 2160
56 tctatagccc actgagcccc gagacagaga acctgcccac agctctcccc gctacaggct 2220
57 gcaggcacgc agggcagcgg gtattctcct cccacctaag tctctgggaa gaagtggaga 2280
58 ggactgatgc tcttcttttt tctctttctg tcctttttct tgctgattta tgcaaagggc 2340
59 tggcattctg atgcttttca ggtttaatcc ttattttaat aaagttttca agcaaaaaaa 2400

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61 &lt;210&gt; SEQ ID NO: 2

62 &lt;211&gt; LENGTH: 360

63 &lt;212&gt; TYPE: PRT

64 &lt;213&gt; ORGANISM: Homo sapiens

66 &lt;400&gt; SEQUENCE: 2

```

67 Met Pro Pro Ser Phe Pro Phe Gly Gly Met Glu Asn Pro Cys Leu Thr
68 1 5 10 15
69 Phe Val Thr Pro Cys Leu Leu Ala Gly Asp Arg Ser Leu Ala Asp Val
70 20 25 30
71 Ile Ile His Glu Ile Ser His Ser Trp Phe Gly Asn Leu Val Thr Asn
72 35 40 45
73 Ala Asn Trp Gly Glu Phe Trp Leu Asn Glu Gly Phe Thr Met Tyr Ala
74 50 55 60
75 Gln Arg Arg Ile Ser Thr Ile Leu Phe Gly Ala Tyr Thr Cys Leu
76 65 70 75 80
77 Glu Ala Ala Thr Gly Arg Ala Leu Leu Arg Gln His Met Asp Ile Thr
78 85 90 95
79 Gly Glu Glu Asn Pro Leu Asn Lys Leu Arg Val Lys Ile Glu Pro Gly
80 100 105 110
81 Val Asp Pro Asp Asp Thr Tyr Asn Glu Thr Pro Tyr Glu Lys Gly Phe
82 115 120 125
83 Cys Phe Val Ser Tyr Leu Ala His Leu Val Gly Asp Gln Asp Gln Phe
84 130 135 140
85 Asp Ser Phe Leu Lys Ala Tyr Val His Glu Phe Lys Phe Arg Ser Ile
86 145 150 155 160
87 Leu Ala Asp Asp Phe Leu Asp Phe Tyr Leu Glu Tyr Phe Pro Glu Leu
88 165 170 175
89 Lys Lys Lys Arg Val Asp Ile Ile Pro Gly Phe Glu Phe Asp Arg Trp
90 180 185 190
91 Leu Asn Thr Pro Gly Trp Pro Pro Tyr Leu Pro Asp Leu Ser Pro Gly
92 195 200 205
93 Asp Ser Leu Met Lys Pro Ala Glu Glu Leu Ala Gln Leu Trp Ala Ala
94 210 215 220
95 Glu Glu Leu Asp Met Lys Ala Ile Glu Ala Val Ala Ile Ser Pro Trp
96 225 230 235 240
97 Lys Thr Tyr Gln Leu Val Tyr Phe Leu Asp Lys Ile Leu Gln Lys Ser
98 245 250 255
99 Pro Leu Pro Pro Gly Asn Val Lys Lys Leu Gly Asp Thr Tyr Pro Ser
100 260 265 270

```

## RAW SEQUENCE LISTING

DATE: 04/07/2006

PATENT APPLICATION: US/10/573,584

TIME: 11:19:22

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\04072006\J573584.raw

```

101 Ile Ser Asn Ala Arg Asn Ala Glu Leu Arg Leu Arg Trp Gly Gln Ile
102      275      280      285
103 Val Leu Lys Asn Asp His Gln Glu Asp Phe Trp Lys Val Lys Glu Phe
104      290      295      300
105 Leu His Asn Gln Gly Lys Gln Lys Tyr Thr Leu Pro Leu Tyr His Ala
106 305      310      315      320
107 Met Met Gly Gly Ser Glu Val Ala Gln Thr Leu Ala Lys Glu Thr Phe
108      325      330      335
109 Ala Ser Thr Ala Ser Gln Leu His Ser Asn Val Val Asn Tyr Val Gln
110      340      345      350
111 Gln Ile Val Ala Pro Lys Gly Ser
112      355      360
114 <210> SEQ ID NO: 3
115 <211> LENGTH: 21
116 <212> TYPE: DNA
117 <213> ORGANISM: artificial sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: forward primer
122 <400> SEQUENCE: 3
123 gaagattgaa ccaggcgttg a
125 <210> SEQ ID NO: 4
126 <211> LENGTH: 25
127 <212> TYPE: DNA
128 <213> ORGANISM: artificial sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: reverse primer
133 <400> SEQUENCE: 4
134 ggtatgagac aaagcagaaa ccttt
136 <210> SEQ ID NO: 5
137 <211> LENGTH: 30
138 <212> TYPE: DNA
139 <213> ORGANISM: artificial sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: probe
144 <400> SEQUENCE: 5
145 ccggacgaca cctataatga gaccccctac

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VERIFICATION SUMMARY

DATE: 04/07/2006

PATENT APPLICATION: US/10/573,584

TIME: 11:19:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\04072006\J573584.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing  
(for reference only)**



IFWP

## RAW SEQUENCE LISTING

DATE: 04/06/2006

PATENT APPLICATION: US/10/573,584

TIME: 10:47:50

Input Set : A:\PTO.TS.TXT

Output Set: N:\CRF4\04062006\J573584.raw

3 <110> APPLICANT: Bayer AG, BHC  
 5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated  
 6 with Arginyl Aminopeptidase RNPEP (RNPEP)  
 8 <130> FILE REFERENCE: Le A 36 899  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/573,584  
 C--> 10 <141> CURRENT FILING DATE: 2006-03-27  
 10 <160> NUMBER OF SEQ ID NOS: 5  
 12 <170> SOFTWARE: PatentIn version 3.1

**Does Not Comply**  
**Corrected Diskette Needed**

## ERRORED SEQUENCES

136 <210> SEQ ID NO: 5  
 137 <211> LENGTH: 30  
 138 <212> TYPE: DNA  
 139 <213> ORGANISM: artificial sequence  
 141 <220> FEATURE:  
 142 <223> OTHER INFORMATION: probe  
 144 <400> SEQUENCE: 5  
 145 ccggacgaca cctataatga gaccccctac  
 W--> 154 ~~Le A 36 899-foreign countries~~  
 W--> 157 - 4 -  
 E--> 161 Le a 36 899  
 E--> 164 - 1 -

30

*delete*



## VERIFICATION SUMMARY

DATE: 04/06/2006

PATENT APPLICATION: US/10/573,584

TIME: 10:47:51

Input Set : A:\PTO.TS.TXT

Output Set: N:\CRF4\04062006\J573584.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:154 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5  
L:157 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5  
L:161 M:254 E: No. of Bases conflict, LENGTH:Input:899 Counted:33 SEQ:5  
L:161 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2  
L:161 M:112 C: (48) String data converted to lower case,  
M:254 Repeated in SeqNo=5  
L:164 M:252 E: No. of Seq. differs, <211> LENGTH:Input:30 Found:33 SEQ:5

**STATISTICS SUMMARY**

PATENT APPLICATION: US/10/573,584

DATE: 04/06/2006

TIME: 10:47:51

Input Set : A:\PTO.TS.TXT

Output Set: N:\CRF4\04062006\J573584.raw

Application Serial Number: US/10/573,584

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 03-27-2006

Art Unit: IFWP

Software Application: PatentIN3.1

Total Number of Sequences: 5

Total Nucleotides: 2479

Total Amino Acids: 360

Number of Errors: 4

Number of Warnings: 2

Number of Corrections: 3

**MESSAGE SUMMARY**

112 C: 1 ((48) String data converted to lower case)  
252 E: 1 (No. of Seq. differs)  
254 E: 2 (No. of Bases conflict)  
270 C: 1 (Current Application Number differs)  
271 C: 1 (Current Filing Date differs)  
320 E: 1 ((1) Wrong Nucleic Acid Designator)  
334 W: 1 ((2) Invalid Amino Acid in Coding Region)  
336 W: 1 (Invalid Amino Acid Number in Coding Region)